

Joseph  
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In the claims:

1. (currently amended) A method for establishing a secure transmission channel from software a process of a first node to software a process of a second node comprising:  
    sending a key, identification of the first node, and identification of the second node from a secure hardware of the first node to a secure hardware of the second node, such that the key is inaccessible by all processes running on the first node and unauthorized processes running on the first node are unable to send unauthorized messages through the secure hardware of the first node;  
    receiving the key, identification of the first node, and identification of the second node by the secure hardware of the second node;  
    verifying the identification of the first node and the identification of the second node at by the secure hardware of the second node; and,  
    storing the key at the secure hardware of the second node, such that the key is inaccessible by all processes running on the second node,  
    wherein the secure hardware of the first hardware and the secure hardware of the second node establish a channel over which the process of the first node and the process of the second node are able to communicate.
2. (cancelled)
3. (original) The method of claim 1, wherein each of the first node and the second node comprises one or more partitions, each partition corresponding to an operating system instance.
4. (currently amended) The method of claim 3, wherein the software process of the first node comprises a process running in one of the one or more partitions of the first node.

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5. (currently amended) The method of claim 4, wherein the identification of the first node comprises at least one of identification of the process running in the one of the one or more partitions of the first node, and identification of the one of the one or more partitions of the first node.

6. (currently amended) The method of claim 3, wherein the identification of the second node comprises at least one of identification of ~~[[a]]~~ the process running in one of the one or more partitions of the second node, and identification of the one of the one or more partitions of the second node.

7. (currently amended) The method of claim 1, wherein each of the secure hardware of the first node and the hardware of the second node comprises a connection management mechanism.

8. (currently amended) The method of claim 1, wherein verifying the identification of the first node and the identification of the second node ~~at~~ by the secure hardware of the second node comprises verifying the identification of the first node and the identification of the second node in a channel state table accessible by the secure hardware of the second node and inaccessible by all the ~~software processes~~ of the second node.

9. (cancelled)

10. (currently amended) The method of claim 1, further comprising:  
creating a message at the ~~software process~~ of the second node;

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sending the message, the key, the identification of the first node, and the identification of the second node from the secure hardware of the second node to the secure hardware of the first node;

receiving the message, the key, the identification of the first node, and the identification of the second node by the secure hardware of the first node;

verifying the key at the secure hardware of the first node; and,

processing the message at the software process of the first node, where the key has been successfully verified at the secure hardware of the first node.

11. (currently amended) A computerized system comprising:

a first secure connection management hardware mechanism at a first node to maintain first keys for secure communication to first processes running in one or more ~~first~~ partitions of the first node from second processes running in one or more ~~second~~ partitions of a second node, the first keys inaccessible by ~~the first~~ all processes running on the partitions of the first node and running on the partitions of the second node, each first key used for secure communication to one of the first processes from one of the second processes, and unauthorized processes running on the first node are unable to send unauthorized messages through the first secure connection management hardware of the first node; and,

a second secure connection management hardware mechanism at the second node to maintain second keys for secure communication to the second processes from the first processes, the second keys inaccessible by ~~the second~~ all processes running on the partitions of the first node and running on the partitions of the second node, each second key used for secure communication to one of the second processes from one of the first processes,

wherein the first and the second secure connection management hardware mechanisms establish a channel over which the first processes and the second processes are able to communicate.

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12. (currently amended) The system of claim 11, further comprising:  
a first key table at the first node to store the first keys, the first key table accessible by the first secure connection management hardware mechanism but inaccessible by the first processes;  
and,  
a second key table at the second node to store the second keys, the second key table accessible by the second secure connection management hardware mechanism but inaccessible by the second processes.
13. (currently amended) The system of claim 11, further comprising:  
a first connection table at the first node and accessible by the first secure connection management hardware mechanism and the first processes, the first connection table having a number of first entries, each first entry identifying one of the first processes, one of the second processes with which the one of the first processes is securely communicating, and one of the one or more second-partitions of the second node in which the one of the second processes is running;  
and,  
a second connection table at the second node and accessible by the second secure connection management hardware mechanism and the second processes, the second connection table having a number of second entries, each second entry identifying one of the second processes, one of the first processes with which the one of the second processes is securely communicating, and one of the one or more first-partitions of the first node in which the one of the first processes is running.
14. (currently amended) The system of claim 13, further comprising:  
a first key table at the first node having a number of first key entries, each first key entry corresponding to a first entry of the first connection table and storing one of the first keys, the

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first key table accessible by the first secure connection management hardware mechanism but inaccessible by the first processes; and,

a second key table at the second node having a number of second key entries, each second key entry corresponding to a second entry of the second connection table and storing one of the second keys, the second key table accessible by the second secure connection management hardware mechanism but inaccessible by the second processes.

15. (currently amended) An article comprising:

a computer-readable ~~signal-bearing~~ recordable data storage medium; and,

means in the medium for maintaining keys for secure communication to first processes running in one or more ~~first~~-partitions of a first node from second processes running in one or more ~~second~~-partitions of a second node, the keys inaccessible by ~~the first all~~ processes, each key used for secure communication to one of the first processes from one of the second processes, wherein unauthorized processes are unable to send unauthorized messages.

16. (original) The article of claim 15, wherein the means in the medium is further for storing the keys in a key table inaccessible by the first processes.

17. (currently amended) The article of claim 15, wherein a connection table at the first node is accessible by the means in the medium and the first processes, the connection table having a number of entries, each entry identifying one of the first processes, one of the second processes with which the one of the first processes is securely communicating, and one of the one or more ~~second~~-partitions of the second node in which the one of the second processes is running.

18. (original) The article of claim 17, wherein a key table at the first node is accessible by the means in the medium but inaccessible by the first processes, the key table having a number of key

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entries, each key entry corresponding to an entry of the connection table and storing one of the keys.

19.-20. (cancelled)